

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Attorney Docket Number	3533-66350
Application Number	10/630,546
Filing Date	July 29, 2003
First Named Inventor	George Zguris
Art Unit	Not yet assigned
Examiner Name	Not yet assigned

U.S. PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Number	Date	Name
GAB		2,774,675	12/1956	Slayter
		2,870,030	1/1959	Stradley et al.
		3,272,657	9/1966	Zenczak
		3,391,055	7/1968	Veres
		3,419,403	12/1968	Searight et al.
		3,450,571	6/1969	Zenczak
		3,732,181	5/1973	Ray et al.
		3,845,737	11/1974	Heussy et al.
		3,892,620	7/1975	Heussy
		3,989,579	11/1976	Sheldon
		4,113,927	9/1978	Johnson et al.
		4,237,083	12/1980	Young et al.
		4,472,030	9/1984	Tachibana et al.
		5,091,275	2/1992	Brecht et al.
		5,180,647	1/1993	Rowland et al.
		5,753,571	5/1998	Donohue
GAB		5,985,488	11/1999	Mitate et al.

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Examiner's Initials	Cite No. (optional)	Number	Date	Country
GAB		JP61096659	5/1986	Japan (Abstract)
		JP61128459	6/1986	Japan (Abstract)
		JP63048744	3/1988	Japan (Abstract)
		JP1071060	3/1989	Japan (Abstract)
		EP0439788	8/1991	EPO
		JP4073863	3/1992	Japan (Abstract)
		JP5151947	6/1993	Japan (Abstract)
		JP5283053	10/1993	Japan (Abstract)
		JP6223798	8/1994	Japan (Abstract)
		JP6302313	10/1994	Japan (Abstract)
		JP7029560	1/1995	Japan (Abstract)
		WO95/09131	4/1995	PCT
		JP7201310	8/1995	Japan (Abstract)
		JP8195194	7/1996	Japan (Abstract)
		JP9082303	3/1997	Japan (Abstract)
✓		JP9092252	4/1997	Japan (Abstract)
GAB		JP9134716	5/1997	Japan (Abstract)

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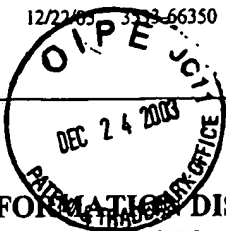
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Examiner's Initials*	Cite No. (optional)	Number	Date	Country
GAB		JP11016560	1/1999	Japan (Abstract)
		JP11260335	9/1999	Japan (Abstract)
		JP11307074	11/1999	Japan (Abstract)
		JP2000268796	9/2000	Japan (Abstract)
		JP2001176481	6/2001	Japan (Abstract)
		JP2002110124	4/2002	Japan (Abstract)
		JP2002151033	5/2002	Japan (Abstract)
		JP2002151034	5/2002	Japan (Abstract)
		JP2002216733	8/2002	Japan (Abstract)
		JP2002304977	10/2002	Japan (Abstract)
		JP2003017030	1/2003	Japan (Abstract)
		WO03/022764	3/2003	PCT
		WO03/022766	3/2003	PCT
GAB				

Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS
GAB		Lam et al., "Influence of Residual Elements in Lead and Expander Materials on the Oxygen- and/or Hydrogen-Gassing Rates of Lead-Acid Batteries," Investigation Report ET/IR448R, ALABC Project N 3.1, 30 pp. (July - December 2001).

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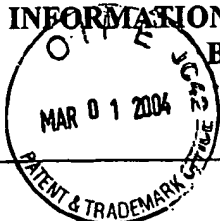
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GAB		Lam et al., "Influence of Residual Elements in Lead on the Oxygen- and/or Hydrogen-Gassing Rates of Lead-Acid Batteries," Investigation Report ET/IR526R, ALABC Project N 3.1, Final Report, 62 pp. (July 2000 - June 2002).
		"Bismuth - History, Background," Download from www.resource-world.net on July 15, 2002, 11 pp.
		"Visit to Exide Technologies, R&D Center, Azuqucade Henares, Sept.17'02" Memo, Hollingsworth & Vose Company, A.K. Nicholson Research Laboratory, New Business Development Unit, 3 pp. (Sept. 17, 2002).
		Lam et al., "Failure mode of valve-regulated lead-acid batteries under high-rate partial-state-of-charge operation," 10 th Asian Battery Conference, 29 pp. (September 3-5, 2003).
GAB		Lam et al., Presentation of "Influence of plate-processing conditions, electrolyte concentration and trace elements on the performance of VRLA batteries at high temperatures and under high-rate partial-state-of-charge operation," given at the 10 th Asian Battery Conference, 25 pp. (September 3-5, 2003).

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Examiner's Initials*	Cite No. (optional)	Number	Date	Name
GAB		5,304,516	4/1994	Clifford
GAB		6,403,507	6/2002	Naumann et al.

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First Named Inventor	George Zguris
Art Unit	1772
Examiner Name	Not yet assigned

U.S. PATENT DOCUMENTS

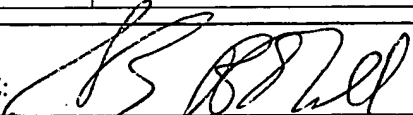
NOTE: If this application was filed after June 30, 2003, copies of United States patents and United States published patent applications do not have to be provided to the Patent Office. This requirement of 37 C.F.R. § 1.98(a)(2)(i) has been waived by the United States Patent and Trademark Office pursuant to the Official Gazette Notice on August 5, 2003 (1276 OG 55).

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
GAB		5,962,355	10/1999	Mattson
		6,261,335	7/2001	Kern et al.
		6,531,248	3/2003	Zguris et al.
		2004/0091777	5/2004	Lam et al.
		2004/0093704	5/2004	Marlow
		2004/0094379	5/2004	Jahns et al.
		2004/0095249	5/2004	Zaccaria
		2004/0096670	5/2004	Zguris et al.
GAB		2004/0096711	5/2004	Zinser et al.

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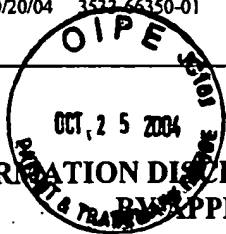
Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee
GAB		WIPO	01/46078	6/2001	
J		WIPO	03/009029	1/2003	
GAB		WIPO	04/011379	2/2004	

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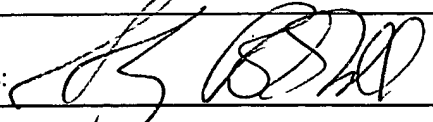
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EAB		Lam et al., "Influence of plate-processing conditions, electrolyte concentration and trace elements on the performance of valve-regulated lead-acid batteries at high temperatures and under high-rate partial-state-of-charge operation," Investigation Report ET/IR671R, ALABC Project TE-1, 32 pp. (August 2003-January 2004).	
↓		Osumi et al., "Development of additives in negative active material to suppress sulfation during high-rate-partial-state of charge," Progress Report No. 2, ALABC Project No. N5.2, 25 pp. (March 30, 2004).	
EAB		Nonwovens--Theory, Process, Performance & Testing Chapter 1: An Overview of Nonwovens and Chapter 2: Nonwoven Terminology, TAPPI Press, Atlanta, Georgia, pp. 1-10 and 14 (1993).	

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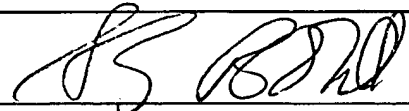
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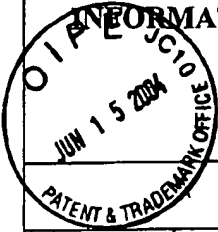
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Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS
GAB		Witkowska, A. et al., "A Molecular Dynamics Study of Lead-Bismuth-Silicate Glasses," IEEE Transactions on Dielectrics and Electronic Insulation, Vol. 8, No. 3, pp. 385-389 (June 2001).

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EAB		DE	1 298 680	5/1964	

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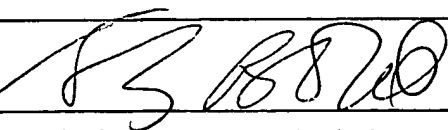
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